

PubChem Compound

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PubChem » Compound Summary

melagatran - Compound Summary (CID 183797)

RN refers to (R-(2S))-isomer; ximelagatran is a prodrug that is hydroxylated to melagatran as active thrombin inhibitor*

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BioMedical Annotation: (Total:1) @

melagatran

Pharmacological Action

Anticoagulants * - Agents that prevent blood clotting. Naturally occurring agents in the blood are included only when they are used as drugs.

Pharmacological Classification

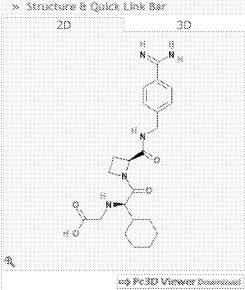
Chemical Actions and Uses*
Pharmacologic Actions*
Therapeutic Uses*
Hematologic Agents*
Anticoagulants*

Related Chemical Classification

Heterocyclic Compounds%
Heterocyclic Compounds, 1-Ring%
Azetines%
Azetidines%
Organic Chemicals%
Amines%
Benzylamines%
Hydrocarbons%
Hydrocarbons, Cyclic%
Hydrocarbons, Aromatic%
Benzene Derivatives%
Benzylamines%

XX Literature

Literature Keyword Mining Tool



Compound ID	183797	(23)
Molecular Weight	429.51264 [g/mol]	89
Molecular Formula	C22H31N5O4	83
XLogP3-AA	-1	83
H-Bond Donor	5	8
H-Bond Acceptor	7	3

😩 Links

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Chemical Structure Search ® BioActivity Summary: ® This Compound with Similar Compounds

Related Compounds: ® Same, Connectivity: 4 Links

Similar Compounds: 47 Links ® Similar Conformers: 7 Links View Conformers ®

Substances: ② All: 31 Links

Same structure: 16 Links Mixture: 15 Links

EXHIBIT A



Defined Atom StereoCenter Count 2 Undefined Atom StereoCenter Count 0 Defined Bond StereoCenter Count 0 Undefined Bond StereoCenter Count 0 Covalently-Bonded Unit Count 1

EXHIBIT A

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*
🐴 Descriptors Computed from Structure: 🐵
  XUPAC Name: 2-[[(1R)-2-[(2S)-2-[(4-
  carbamimidoylphenyl)methylcarbamoyl jazetidin-1-
  yl]-1-cyclohexyl-2-oxoethyl]amino]acetic acid
  Canonical SMILES:
  C1CCC(CC1)C(C(=0)N2CCC2C(=0)NCC3=CC=C(C=C3)C(=N)N)NCC(=0)O
  Isomeric SMILES: C1CCC(CC1)
  [C@H](C(=0)N2CC[C@H]2C(=0)NCC3=CC=C(C=C3)C(=N)N)NCC(=0)O
  InChI: InChI=1S/C22H31N5O4
  /c23-20(24)16-8-6-14(7-9-16)12-26-21(30)17-10-11-27
  (17)22(31)19(25-13-18(28)29)15-4-2-1-3-5-15/h6-9,15,17,19,25H,1-5,
  10-13H2,(H3,23,24)(H,26,30)(H,28,29)/t17-,19+/m0/s1
  InChikey: DKWNMCUOEDMMIN-PKOBYXMFSA-N (2)
                                                                        Ŷ
   Compound Information: (2)
  CID 183797 🕮 😹
    Create Date: 2005-06-24
  Related Compounds: (2)
    Same, Connectivity: 4 Links
  Similar Compounds: 47 Links (2)
  Similar Conformers: 7 Links View Conformers (2)
                                                                        Ŷ
   Substance Information: @
  Substances: 🕮
    All: 31 Links
    Same structure: 16 Links
    Mixture: 15 Links
  Category: [for same structure substances] (2)
    Biological Properties: 7 Links
      BindingDB (1)
        SID 81054817 - External ID: 29388
      ChEBI (1)
        SID 85308039 - External ID: CHEBI: 102451
      ChemSpider (1)
        SID 33506196 - External ID: 159822
      DiscoveryGate ( 1 )
        SID 10260002 - External ID: 183797
      LeadScope ( 1 )
        SID 49973260 - External ID: LS-72219
      NextBio (1)
        SID 75448641 - External ID: 183797
      Shanghai Institute of Organic Chemistry (1)
        SID 46392332 - External ID: 1k22
    Chemical Reactions: 1 Link
      ChemSpider (1)
        SID 33506196 - External ID: 159822
    Journal Publishers: 3 Links
      Prous Science Drugs of the Future (1)
        SID 12015035 - External ID: 233311
      Thomson Pharma (2)
        SID 14807481 - External ID: 00001847
        SID 14832162 - External ID: 00043823
    Metabolic Pathways: 1 Link
      KEGG (1)
        SID 51091482 - External ID: D07143
    Physical Properties: 1 Link
      ChemSpider (1)
        SID 33506196 - External ID: 159822
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EXHIBIT A

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